#### 23 Mar 05

#### **Agenda**

- ➤ Schedule Issues (Montag)
- > Report from experiments (STAR,PHOBOS,PHENIX,BRAHMS)
  - > Final results of 62 GeV Cu-Cu run
  - > 22 GeV Cu-Cu run update
  - > pp preparations
- > 22 GeV Cu-Cu Machine Status (Pilat)
- Polarized Proton Update (Bai)
  - AGS pp development
  - AGS Cold Snake
  - CNI Polarimeter
  - Jet Target
  - Other
- > RCF Issues (Throwe)
- > Other business

Planning Meeting Web Site: http://www.c-ad.bnl.gov/esfd/RMEM/rhic\_planning.htm

# Experiment Goals RHIC Run 5, 31.2 x31.2 GeV/n and 11.2x11.2 GeV/n CuCu

(as of 3/16/05)

#### BRAHMS

- Goals ??

#### PHENIX

- 62 GeV, Integrated recorded luminosity goal 92 μb<sup>-1</sup>
- 22 GeV, ~20M recorded events

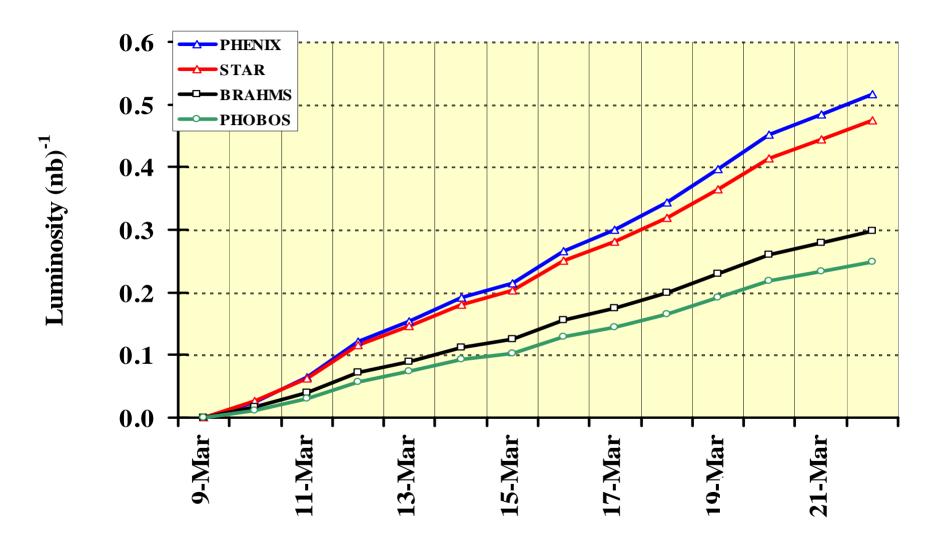
#### PHOBOS

- 62 GeV, Goal 250 M events to tape, minimum Goal 100M events
- 22 GeV, Goal 8M events to tape

#### STAR

- 62 GeV, Min bias, Goal >20M events to tape
- 22 GeV, Min bias, Goal >1M events to tape

### RHIC Run 5 (62 GeV) Final Delivered Cu-Cu Luminosity



- RHIC Run5 Plan (estimate based on present understanding of budget)
  - **>** 18 Nov 04 − Cool down begins
  - **> 23 Nov 04 − Blue Ring Cold**
  - > 28 Nov 04 Yellow Cold
  - > 29 Nov 04 Short in D6-D8 dipoles Yellow Ring, schedule delay
  - **>** 3 Dec 04 − quad bus-bus short in sector 12, shutdown to repair
  - > 27 Dec 04 short problem resolved, rings at 4 degrees again
  - > 27 Dec 04 "2 week" RHIC setup with beam began
  - > 28-29 Dec 04 found & fixed aperture problem in Yellow Ring (Al foil)
  - > 5 Jan 05 "2 week" ramp-up with colliding beams began

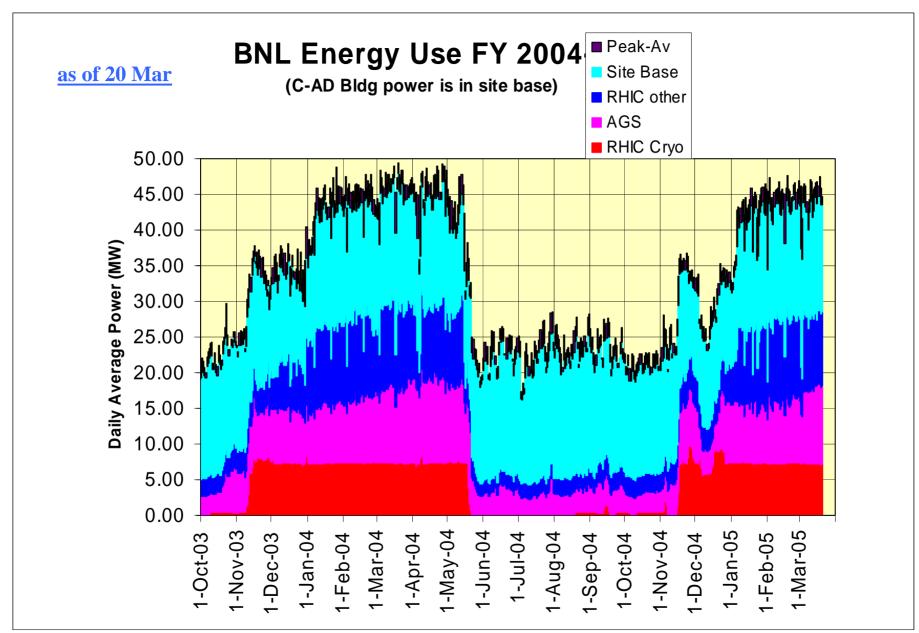
~ final

## RHIC Machine/Detector Planning Meeting

Details – as run/planned

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> 11 Jan - Physics with Cu-Cu began
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- > 7 Mar (0800) end 200 GeV/n Cu-Cu
- > 7-9 Mar − Setup 62.4 GeV/n Cu-Cu
- ➤ 9-15 Mar 62.4 GeV/n Cu-Cu Physics
- ► 15 Mar 8 hours at injection energy
- > 15-22 (1400) Mar 62.4 GeV/n Cu-Cu Physics
- **> 22** (1400)-24 (0800) March Cu-Cu Physics at RHIC Injection
- > 24 Mar (0800) End of 10.3 week Cu-Cu run, 8 hr maintenance
- > 24-30 Mar begin 3 week pp setup
- > 30 Mar 1 Apr 05 Cold Snake/Jet Installation/CNI etc
- > 1-16 Apr complete 3 week pp setup
- > 16 Apr Begin 10.0 week pp Physics run
- ≥ 25 Jun end pp run, RHIC Run 5 ends
- > 30 Jun − Cryo switch to LN<sub>2</sub> complete, 32.0 weeks of RHIC cryo operation ends



## **Archive**

# Experiment Goals RHIC Run 5, 100x100 GeV/n CuCu, Summary of Results (3/16/05 update)

#### BRAHMS

- Soft physics goal  $0.8 \text{ nb}^{-1}$  recorded, achieved  $0.8 \text{ nb}^{-1}$  → 100% of goal
- − High-Pt goal 2.4 nb<sup>-1</sup> recorded, achieved 1.75 nb<sup>-1</sup>  $\rightarrow$  73% of goal

#### PHENIX

Integrated recorded luminosity goal (live BBCLL1) 2.9 nb<sup>-1</sup>, achieved 3.06 nb<sup>-1</sup> → 105% of goal

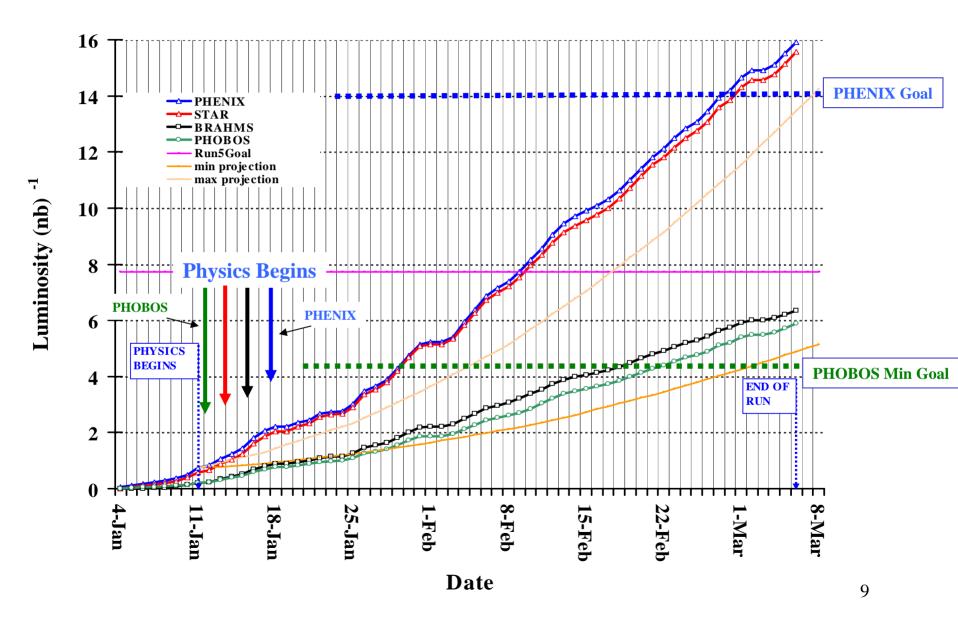
#### PHOBOS

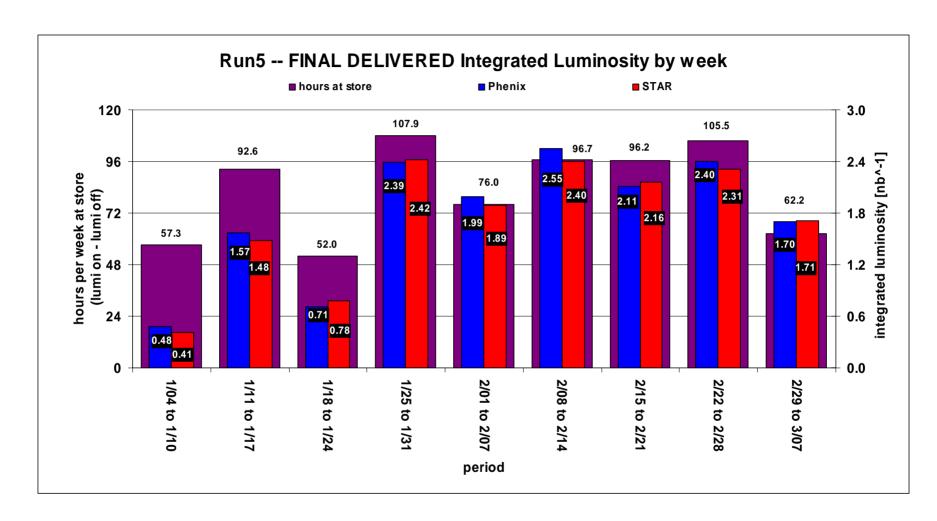
- Goal 1000M events to tape, achieved 500M  $\rightarrow$  50% of minimum goal
- Minimum Goal 400M events to tape, achieved 500M  $\rightarrow$  125% of minimum goal

#### STAR

- Min bias, Goal 80M events, recorded 64.5M events → 80% of goal
- High Pt Trigger (BEMC HT18), Goal to sample 1-2 nb<sup>-1</sup>, recorded 1.5nb<sup>-1</sup> → 100% of goal

#### RHIC Run 5 Final Delivered 100x100 GeV/n Cu-Cu Luminosity





#### http://www.c-ad.bnl.gov/esfd

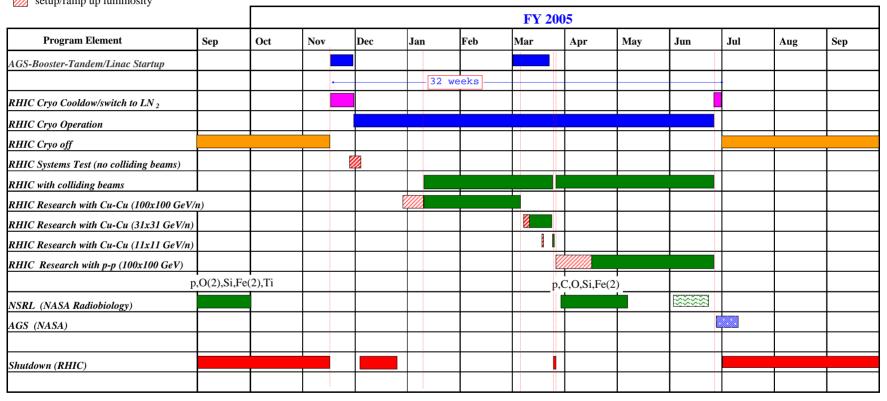
## **C-A Operations-FY05**

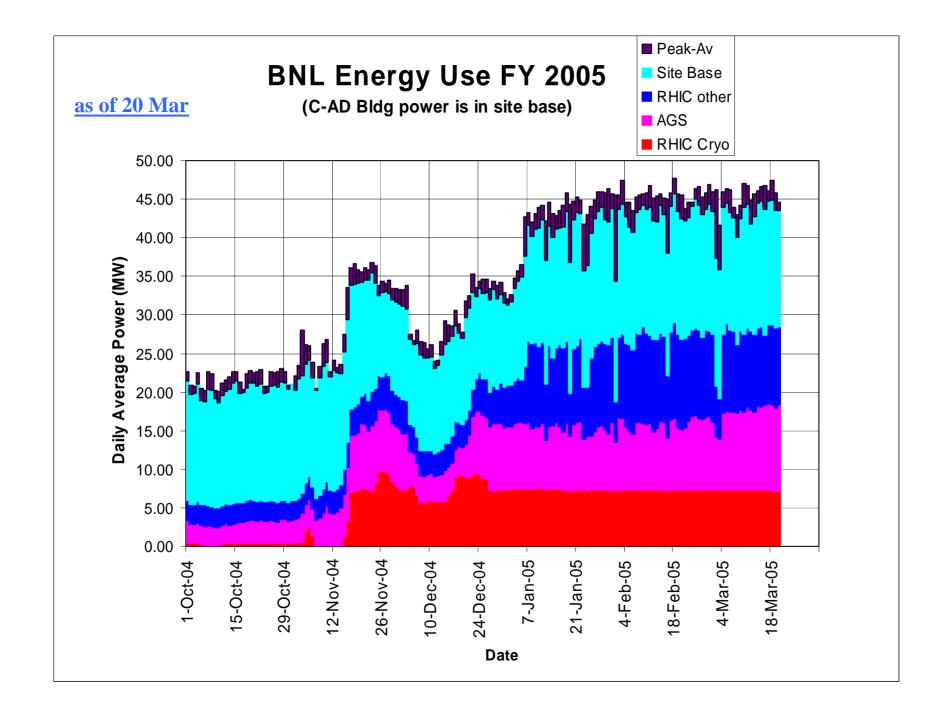
22 Feb 05

pending approval/funding

schedule to be determined setup/ramp up luminosity

Schedule - subject to change





17 November 2004

# **Purpose of this meeting:**

 To address issues and priorities relating to the optimization of physics output from RHIC experiments.

To discuss and promulgate policy (when needed).

17 November 2004

### PAC Recommendations (very short summary):

- 8-10 week pp run should have highest priority
- Cu-Cu run should accumulate an integrated delivered luminosity of at least 7 nb<sup>-1</sup> at  $\sqrt{s} = 200 \text{ GeV}$
- Cu-Cu at  $\sqrt{s} = 62.4$  GeV and 1 day at injection is advisable if above goals are met
- 1-2 day pp (unpolarized) run at  $\sqrt{s} = 400\text{-}500 \text{ GeV}$  desirable